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NEWS 23 Sep 03 JAPIO has been reloaded and enhanced

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=> s (bacillus or Bt) and (chloroplast or plastid)

L1 296 (BACILLUS OR BT) AND (CHLOROPLAST OR PLASTID)

=> duplicate remove l1

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=> d ti 1-10

L2 ANSWER 1 OF 194 CAPLUS COPYRIGHT 2002 ACS

TI Methods for the production of multimeric proteins and their incorporation into plant oil bodies for therapeutic, cosmetic and food use

L2 ANSWER 2 OF 194 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE 1

TI Substitution of a single amino acid switches the tentoxin-resistant thermophilic F1-ATPase into a tentoxin-sensitive enzyme.

L2 ANSWER 3 OF 194 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE 2

TI Mutations in domain V of the 23S ribosomal RNA of **Bacillus subtilis** that inactivate its protein folding property in vitro.

L2 ANSWER 4 OF 194 CAPLUS COPYRIGHT 2002 ACS

TI Research of **Bt** and OC gene cotransformation in tobacco **chloroplast**

L2 ANSWER 5 OF 194 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE 3

TI Degradation and possible carry over of feed DNA monitored in pigs and poultry.

L2 ANSWER 6 OF 194 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE 4

TI Isoprene synthase activity parallels fluctuations of isoprene release during growth of **Bacillus subtilis**.

L2 ANSWER 7 OF 194 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

TI Manipulation of gene regulation in transgenic tobacco chloroplasts results in hyper-expression of human serum albumin, formation of inclusion bodies and facilitates purification.

L2 ANSWER 8 OF 194 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

TI Expression of the **Bt** (cry2Aa2) gene in transgenic cotton chloroplasts.

L2 ANSWER 9 OF 194 CAPLUS COPYRIGHT 2002 ACS

TI Expression of multiple genes in a single operon in plants and uses as

insecticides and in degrading inorganic or organic metal compounds in soil and water

L2 ANSWER 10 OF 194 CAPLUS COPYRIGHT 2002 ACS

TI .beta.-Carotene dioxygenases from mouse, human and zebrafish and their use for the cleavage of .beta.-carotene

=> s l2 and toxin

L3 11 L2 AND TOXIN

=> d ti 1-11

L3 ANSWER 1 OF 11 AGRICOLA

TI Overexpression of the **Bacillus** thuringiensis (**Bt**) Cry2Aa2 protein in chloroplasts confers resistance to plants against susceptible and **Bt**-resistant insects.

L3 ANSWER 2 OF 11 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

TI Substitution of a single amino acid switches the tentoxin-resistant thermophilic F1-ATPase into a tentoxin-sensitive enzyme.

L3 ANSWER 3 OF 11 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

TI The fate of forage plant DNA in farm animals: A collaborative case-study investigating cattle and chicken fed recombinant plant material.

L3 ANSWER 4 OF 11 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

TI Expression of **Bacillus** thuringiensis (**Bt**) crystal toxin gene in the **chloroplast** of tobacco.

L3 ANSWER 5 OF 11 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

TI Studies on insect resistance of **Bt** transplastomic plants and the phenotype of their progenies.

L3 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2002 ACS

TI Expression of multiple genes in a single operon in plants and uses as insecticides and in degrading inorganic or organic metal compounds in soil and water

L3 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2002 ACS

TI Multi-gene expression constructs for engineering plants with stacked input traits using a single transformation event and for production of polyhydroxyalkanoates

L3 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2002 ACS

TI Methods and compositions for transforming plants to express **Bacillus** thuringiensis Cry2A .delta.-endotoxins as biopesticides

L3 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2002 ACS

TI Increasing level of foreign gene expression in plants by transformation of plastids with **plastid**-specific expression vectors

L3 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2002 ACS

TI Increasing levels of foreign gene expression in plants by transformation of plastids with **plastid**-specific expression vectors

L3 ANSWER 11 OF 11 CABA COPYRIGHT 2002 CABI

TI **Chloroplast** transformation of mosquitocidal **Bacillus** sphaericus binary toxin genes in Chlamydomonas reinhardtii.

=> d bib abs 4 7 8 10-11 9 5

L3 ANSWER 4 OF 11 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

AN 2000:385888 BIOSIS

DN PREV200000385888

TI Expression of **Bacillus thuringiensis (Bt)** crystal toxin gene in the **chloroplast** of tobacco.

AU Zhang Zhong-Lin (1); Ren Yan-Guo (1); Shen Yan-Xin (1); Shan Song (1); Fan Guo-Chang; Wu Xiang-Fu; Qian Kai-Xian; Shen Gui-Fang (1)

CS (1) Biotechnology Research Center, Chinese Academy of Agricultural Sciences, Beijing, 100081 China

SO Acta Genetica Sinica, (2000) Vol. 27, No. 3, pp. 270-277. print. ISSN: 0379-4172.

DT Article

LA Chinese

SL Chinese; English

AB The 3.5kb wild-type **Bt** Cry I A(c) gene and its 3' truncated forms (2.1 kb, 1.8kb) were placed under the control of **plastid** expression signals consisting of the strong light-induced psbA promoter and its 3' untranslated region with the aadA cassette (Prn, aadA and psbA3') as a selectable marker. The resulting vectors pBT3, pBT8 and pBT22 also contain flanking tobacco **plastid** DNA homology regions to direct insertion of the **Bt** transgene into the tobacco **plastid** genome between psbA and trnK by homologous recombination. Transformed **plastid** genomes were selectively amplified by growing the cells on spectinomycin medium. Several independently transformed lines were obtained at last. The results of Southern and Western blot demonstrated that these three kinds of **Bt** genes had been introduced into tobacco plants, and their filial generations are resistant to spectinomycin. Insecticidal activity assay with transgenic tobacco leaves indicate that some plants have strong toxicity to cotton bollworm. This is the first report in China that **Bt** gene has been introduced and successfully expressed in the **chloroplast** of higher plants.

L3 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2002 ACS

AN 2000:911450 CAPLUS

DN 134:67166

TI Multi-gene expression constructs for engineering plants with stacked input traits using a single transformation event and for production of polyhydroxyalkanoates

IN Aquin, Stephanie; Peoples, Oliver P.; Snell, Kristi D.

PA Metabolix, Inc., USA

SO PCT Int. Appl., 57 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000078985	A1	20001228	WO 2000-US17197	20000623
	W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
EP	1196614	A1	20020417	EP 2000-939991	20000623
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
PRAI	US 1999-140768P	P	19990624		
	WO 2000-US17197	W	20000623		

AB Methods and constructs are provided for the introduction of multiple genes into plants using a single transformation event. Coordinated expression of genes in the cassette, producing proteins with native amino acid sequences, is achieved by prodn. of one polycistronic mRNA that contains sep. translation initiation signals for each enzyme coding region. Bicistronic constructs contain a single 5' promoter, protein encoding sequence 1, an IRES, protein encoding sequence 2, and a single 3' polyadenylation sequence. For polycistronic constructs, addnl. cassettes of protein encoding sequences, in which each coding region is preceded by

an IRES, can be inserted between protein encoding sequence 2 and the polyadenylation sequence. The methods and constructs are useful for creating plants with stacked input traits (e.g., glyphosate tolerant plants producing **BT toxin**) and/or value added products

(e.g., the prodn. of polyhydroxyalkanoates (PHAs) in plants).

RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2002 ACS

AN 2000:314835 CAPLUS

DN 132:330611

TI Methods and compositions for transforming plants to express
Bacillus thuringiensis Cry2A .delta.-endotoxins as biopesticides

IN Corbin, David R.; Romano, Charles P.

PA Monsanto Co., USA

SO PCT Int. Appl., 104 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000026371	A1	20000511	WO 1999-US26086	19991104
	W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	EP 1127125	A1	20010829	EP 1999-958782	19991104
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
	BR 9915821	A	20011023	BR 1999-15821	19991104
PRAI	US 1998-186002	A1	19981104		
	WO 1999-US26086	W	19991104		

AB Disclosed is a means of controlling plant pests by expressing Cry2A **Bacillus thuringiensis .delta.-endotoxins** in plants using novel nucleic acid segments encoding said toxins. The nucleic acid segments are disclosed, as are transformation vectors contg. the nucleic acid segments, plants transformed with the claimed segments, methods for transforming plants, and methods of controlling plant infestation by pests.

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2002 ACS

AN 1995:922065 CAPLUS

DN 123:308204

TI Increasing levels of foreign gene expression in plants by transformation of plastids with **plastid-specific** expression vectors

IN McBride, Kevin E.; Stalker, David M.

PA Calgene Inc., USA

SO PCT Int. Appl., 28 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9524493	A1	19950914	WO 1995-US2901	19950310
	W:	CA, JP, US			
	RW:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE			
	US 5545817	A	19960813	US 1994-209649	19940311
	CA 2185339	AA	19950914	CA 1995-2185339	19950310
	EP 749491	A1	19961227	EP 1995-913608	19950310
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE			
	JP 09510100	T2	19971014	JP 1995-523624	19950310

PRAI US 1994-209649 19940311
WO 1995-US2901 19950310

AB Expression constructs that can be used to achieve high level expression of foreign genes in the plastids of a plant or plant cell when grown in the absence of selective pressure are described. In addn., the presence of multiple **plastid** genomes in a cell increases the level of expression of the gene. Expression of the **Bacillus thuringiensis .delta.-endotoxin cryIA(c)** gene in a plant **chloroplast** is demonstrated. A gene for the **toxin** was prepd. with a base compn. comparable to that of the **plastid** and placed under control of the tobacco rrn operon promoter using the leader sequence of the rbcL gene and terminator of the rps16 gene to increase stability of the transcript. Plants showing integration of the DNA into plastids were tested for resistance to Heliothis virescens and Helicoverpa zea. Complete mortality was obsd. with as little as 2% of the leaf eaten. A synthetic gene for the biol. active fragment was ineffective.

L3 ANSWER 11 OF 11 CABA COPYRIGHT 2002 CABI

AN 2000:56658 CABA

DN 20001107326

TI **Chloroplast** transformation of mosquitocidal **Bacillus sphaericus** binary **toxin** genes in Chlamydomonas reinhardtii

AU Turkec, A.

CS Uludag University, Faculty of Agriculture, Department of Field Crops, Bursa, Turkey.

SO Turkish Journal of Field Crops, (1999) Vol. 4, No. 2, pp. 85-90. 23 ref.

DT Journal

LA English

AB **Bacillus sphaericus** binary **toxin** genes (42kDa and 51kDa) conferring mosquitocidal properties were successfully incorporated into Chlamydomonas chloroplasts by the particle gun bombardment method. Polymerase chain reactions amplified aadA and 42 kDa fragments in the genomic DNA of Chlamydomonas and gave evidence of successful integration.

L3 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2002 ACS

AN 1999:90266 CAPLUS

DN 130:163968

TI Increasing level of foreign gene expression in plants by transformation of plastids with **plastid**-specific expression vectors

IN McBride, Kevin E.; Stalker, David M.

PA Calgene LLC, USA

SO U.S., 9 pp., Cont.-in-part of U.S. 5,545,817.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5866421	A	19990202	US 1996-593205	19960129
	US 5545817	A	19960813	US 1994-209649	19940311
	CA 2185339	AA	19950914	CA 1995-2185339	19950310

PRAI US 1994-209649 19940311

AB Expression constructs that can be used to achieve high level expression of foreign genes in the plastids of a plant or plant cell when grown in the absence of a selective pressure are described. In addn., the presence of multiple **plastid** genomes in a cell increases the level of expression of the gene. Expression of the **Bacillus thuringiensis .delta.-endotoxin cryIA(c)** gene in a plant **chloroplast** is demonstrated. A gene for the **toxin** was prepd. with a base compn. comparable to that of the **plastid** and placed under the control of the tobacco rrn operon promoter using the leader sequence of the rbcL gene and terminator of the rps16 gene to increase stability of the transcript. Plants showing integration of the DNA into plastids were tested for resistance to Heliothis virescens and Helicoverpa zea. Complete mortality was obsd. with as little as 2% of the leaf eaten. A synthetic gene for the biol. active fragment was ineffective.

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 5 OF 11 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
 AN 2000:301504 BIOSIS
 DN PREV200000301504
 TI Studies on insect resistance of **Bt** transplastomic plants and the phenotype of their progenies.
 AU Zhang Zhong-Lin (1); Chen Xi (1); Qian Kai-Xian; Shen Gui-Fang (1)
 CS (1) Biotechnology Research Center, Chinese Academy of Agricultural Sciences, Beijing, 100081 China
 SO Acta Botanica Sinica, (Sept., 1999) Vol. 41, No. 9, pp. 947-951. print. ISSN: 0577-7496.
 DT Article
 LA Chinese
 SL Chinese; English
 AB Insecticidal protein gene CryIA(c) from **Bacillus thuringiensis** (**Bt toxin** gene) was placed under the control of psbA5'- and 3'- regulatory regions of rice (*Oryza sativa* L.) **chloroplast** to construct **Bt** expression cassette, which was ligated with selectable marker aadA cassette and homology regions of tobacco (*Nicotiana tabacum* L.) **chloroplast** genome to generate transformation vector pTRS8. Leaves of tobacco plant cv. NC89 were transformed with particle bombardment method, **plastid** transformants were selected by their resistance to 500 mg/L of spectinomycin. Some transplastomic plants were toxic to the third-instar larvae of *Helicoverpa zea*, and the growth of the survived insects was remarkably inhibited. Genetic and molecular analyses of T1 and T2 progenies of plants with highly efficient insect resistance showed that **Bt toxin** gene had been inherited in progenies, and spectinomycin resistance was inherited maternally.

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